Name of Work :**Improvements & Asphalting to road at Ramaiah Layout & Soundarya Layout Surroundings in Bagalagunte Ward No 14**

DASARAHALLI DIVISION | T DASARAHALLI SUB DIVISION

Estimate Cost:-50.00 Lakhs, **JOB CODE: 014-19-000019**

Head of Account:- P-3518

Agency:-Sri C RAJJANNA,KANNASAWADI VILLEGE, MADHURE(H), DODDABALLAPURA(Y), BANGALORE.

Work Order No:- : EE/DD/WO/127/2020-21 Date-05-11-2020

DETAILED MEASUREMENTS

Recorded on:-

Pre measurements

BOQ Item No	Description Of Item of work	Nos	Measurements			Sub Qty	Total Qty	Unit
			Length	Breath	Depth			
1	3	4	6	7	8	9	10	11
1	Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100mtr. sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications							
	SOUNDARYA L/O 1ST MAIN							
		1	30.00	7.65 + 8.80 / 2			246.750	
		1	11.00	8.80 + 6.90 / 2			86.350	
		1	25.50	6.90 + 6.80 / 2			174.675	
		1	8.00	6.80 + 6.80 / 2			54.400	
		1	11.00	6.80 + 6.80 / 2			74.800	
		1	8.00	6.80 + 7.15 / 2			55.800	
		1	30.00	7.15 + 6.90 / 2			210.750	
		1	30.00	6.90 + 7.10 / 2			210.000	
		1	21.00	7.10 + 7.80 / 2			156.450	
		1	30.00	6.80 + 7.30 / 2			211.500	
		1	30.00	7.30 + 6.40 / 2			205.500	
		1	8.00	6.40 + 6.50 / 2			51.600	
		1	30.00	6.50 + 6.25 / 2			191.250	
		1	30.00	6.25 + 6.30 / 2			188.250	
		1	30.00	6.30 + 6.60 / 2			193.500	
		1	30.00	6.60 + 6.70 / 2			199.500	
		1	19.00	6.70 + 6.70			127.300	

Checked with me 6/11

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6/11/20

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BOQ Item No	Description Of item of work	Nos	Measurements			Sub Qty	Total Qty	Unit
			Length	Breath	Depth			
1	3	4	6	7	8	9	10	11
measurement continued on:-								
2	Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in Ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.							
	SOUNDARYA L/O 1ST MAIN							
		1	30.00	7.65 + 8.80 / 2	0.25	61.688		
		1	11.00	8.80 + 6.90 / 2	0.25	21.588		
		1	25.50	6.90 + 6.80 / 2	0.25	43.669		
		1	8.00	6.80 + 6.80 / 2	0.25	13.600		
		1	11.00	6.80 + 6.80 / 2	0.25	18.700		
		1	8.00	6.80 + 7.15 / 2	0.25	13.950		
		1	30.00	7.15 + 6.90 / 2	0.25	52.688		
		1	30.00	6.90 + 7.10 / 2	0.25	52.500		
		1	21.00	7.10 + 7.80 / 2	0.25	39.113		
		1	30.00	6.80 + 7.30 / 2	0.25	52.875		
		1	30.00	7.30 + 6.40 / 2	0.25	51.375		
		1	8.00	6.40 + 6.50 / 2	0.25	12.900		
		1	30.00	6.50 + 6.25 / 2	0.25	47.813		
		1	30.00	6.25 + 6.30 / 2	0.25	47.063		
		1	30.00	6.30 + 6.60 / 2	0.25	48.375		
		1	30.00	6.60 + 6.70 / 2	0.25	49.875		
		1	19.00	6.70 + 6.70 / 2	0.25	31.825		
		1	19.50	6.70 + 5.20 / 2	0.25	29.006		
				Total Qty		688.600		
				LIMITED TO TENDER QTY		544.980	544.980	Cum

checked & the MB 9/11

Assistant Engineer-14 21/11/20

Assistant Executive Engineer
T Dasarahalli Sub- Division
BBMP
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BOQ Item No	Description Of item of work	Nos	Measurements			Sub Qty	Total Qty	Unit
			Length	Breath	Depth			
1	3	4	6	7	8	9	10	11
measurement continued on:- 20/11/20								
3	Construction of granular sub-base Grading-V as sub base and drainage layers by providing coarse graded crushed stone aggregates of granite / trap / basalt material, mixing in mechanical mix plant at OMC carriage of mixed materials to work site, spreading in uniform layers with motor grader on prepared surface, and compacting with vibratory power roller to achieve the 98% proctor density, complete as per specification							
	SOUNDARYA L/O 1ST MAIN							
		1	30.00	(7.65 + 8.80)/2		0.15	37.013	
		1	11.00	(8.80 + 6.90)/2		0.15	12.953	
		1	25.50	(6.90 + 6.80)/2		0.15	26.201	
		1	8.00	(6.80 + 6.80)/2		0.15	8.160	
		1	11.00	(6.80 + 6.80)/2		0.15	11.220	
		1	8.00	(6.80 + 7.15)/2		0.15	8.370	
		1	30.00	(7.15 + 6.90)/2		0.15	31.613	
		1	30.00	(6.90 + 7.10)/2		0.15	31.500	
		1	21.00	(7.10 + 7.80)/2		0.15	23.468	
		1	30.00	(6.80 + 7.30)/2		0.15	31.725	
		1	30.00	(7.30 + 6.40)/2		0.15	30.825	
		1	8.00	(6.40 + 6.50)/2		0.15	7.740	
		1	30.00	(6.50 + 6.25)/2		0.15	28.688	
		1	30.00	(6.25 + 6.30)/2		0.15	28.238	
		1	30.00	(6.30 + 6.60)/2		0.15	29.025	
		1	30.00	(6.60 + 6.70)/2		0.15	29.925	
		1	19.00	(6.70 + 6.70)/2		0.15	19.095	
		1	19.50	(6.70 + 5.20)/2		0.15	17.404	
				Total Qty			413.160	
				LIMITED TO TENDER QTY			408.740	408.740 Cum

Checked & Hd 20/11

Assistant Engineer-14
20/11/20

Assistant Executive Engineer
T Dasarahalli Sub- Division
BBMP
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ಟಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಂಬಗುಂಟೆ. ಜಿ.ಜಿ.ಪಂ.
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BOQ Item No	Description Of item of work	Nos	Measurements			Sub Qty	Total Qty	Unit
			Length	Breath	Depth			
1	3	4	6	7	8	9	10	11
measurement continued on:- 24/11/20								
4	Providing, laying, spreading and compacting graded stone aggregates to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. Specification No. 406 with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work. SOUNDARYA L/O 1ST MAIN							
		1	30.00	(7.65 + 8.80)/2	0.20	49.350		
		1	11.00	(8.80 + 6.90)/2	0.20	17.270		
		1	25.50	(6.90 + 6.80)/2	0.20	34.935		
		1	8.00	(6.80 + 6.80)/2	0.20	10.880		
		1	11.00	(6.80 + 6.80)/2	0.20	14.960		
		1	8.00	(6.80 + 7.15)/2	0.20	11.160		
		1	30.00	(7.15 + 6.90)/2	0.20	42.150		
		1	30.00	(6.90 + 7.10)/2	0.20	42.000		
		1	21.00	(7.10 + 7.80)/2	0.20	31.290		
		1	30.00	(6.80 + 7.30)/2	0.20	42.300		
		1	30.00	(7.30 + 6.40)/2	0.20	41.100		
		1	8.00	(6.40 + 6.50)/2	0.20	10.320		
		1	30.00	(6.50 + 6.25)/2	0.20	38.250		
		1	30.00	(6.25 + 6.30)/2	0.20	37.650		
		1	30.00	(6.30 + 6.60)/2	0.20	38.700		
		1	30.00	(6.60 + 6.70)/2	0.20	39.900		
		1	19.00	(6.70 + 6.70)/2	0.20	25.460		
		1	19.50	(6.70 + 5.20)/2	0.20	23.205		
	Total Qty					550.880		
	LIMITED TO TENDER QTY					544.980	544.980	Cum

Checked & Measured by me 24/11

12/01/2021

E.E. (D.D.)

Assistant Engineer-14

24/11/20

Assistant Executive Engineer
T Dasarahalli Sub-Division
BBMP

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ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಗಂಗಾಂಬಿಕೆ, ಪಿ.ಪಿ.ಸಿ
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BOQ Item No	Description Of Item of work	Nos	Measurements			Sub Qty	Total Qty	Unit
			Length	Breath	Depth			
1	3	4	6	7	8	9	10	11
measurement continued on:- 28/11/20								
5	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification.							
	SOUNDARYA L/O 1ST MAIN							
		1	30.00	7.65 + 8.80 / 2		246.750		
		1	11.00	8.80 + 6.90 / 2		86.350		
		1	25.50	6.90 + 6.80 / 2		174.675		
		1	8.00	6.80 + 6.80 / 2		54.400		
		1	11.00	6.80 + 6.80 / 2		74.800		
		1	8.00	6.80 + 7.15 / 2		55.800		
		1	30.00	7.15 + 6.90 / 2		210.750		
		1	30.00	6.90 + 7.10 / 2		210.000		
		1	21.00	7.10 + 7.80 / 2		156.450		
		1	30.00	6.80 + 7.30 / 2		211.500		
		1	30.00	7.30 + 6.40 / 2		205.500		
		1	8.00	6.40 + 6.50 / 2		51.600		
		1	30.00	6.50 + 6.25 / 2		191.250		
		1	30.00	6.25 + 6.30 / 2		188.250		
		1	30.00	6.30 + 6.60 / 2		193.500		
		1	30.00	6.60 + 6.70 / 2		199.500		
		1	19.00	6.70 + 6.70 / 2		127.300		
		1	19.50	6.70 + 5.20 / 2		116.025		
				Total Qty		2754.400		
				LIMITED TO TENDER QTY		2724.900	2724.900	Sqm

Checked upto 28/11

Assistant Engineer-14

28/11/20

Assistant Executive Engineer
T Dasarahalli Sub- Division
BBMP

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BOQ Item No	Description Of item of work	Nos	Measurements			Sub Qty	Total Qty	Unit
			Length	Breath	Depth			
1	3	4	6	7	8	9	10	11
measurement continued on:- 29/11/20								
6	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification.							
	SOUNDARYA L/O 1ST MAIN							
		1	30.00	7.65 + 8.80 / 2		246.750		
		1	11.00	8.80 + 6.90 / 2		86.350		
		1	25.50	6.90 + 6.80 / 2		174.675		
		1	8.00	6.80 + 6.80 / 2		54.400		
		1	11.00	6.80 + 6.80 / 2		74.800		
		1	8.00	6.80 + 7.15 / 2		55.800		
		1	30.00	7.15 + 6.90 / 2		210.750		
		1	30.00	6.90 + 7.10 / 2		210.000		
		1	21.00	7.10 + 7.80 / 2		156.450		
		1	30.00	6.80 + 7.30 / 2		211.500		
		1	30.00	7.30 + 6.40 / 2		205.500		
		1	8.00	6.40 + 6.50 / 2		51.600		
		1	30.00	6.50 + 6.25 / 2		191.250		
		1	30.00	6.25 + 6.30 / 2		188.250		
		1	30.00	6.30 + 6.60 / 2		193.500		
		1	30.00	6.60 + 6.70 / 2		199.500		
		1	19.00	6.70 + 6.70 / 2		127.300		
		1	19.50	6.70 + 5.20 / 2		116.025		
				Total Qty		2754.400		
				LIMITED TO TENDER QTY		2724.900	2724.900	Sqm

Checked & Tk
29/11

Assistant Engineer-14
29/11/20

Assistant Executive Engineer
T Dasarahalli Sub-Division
BBMP

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BOQ Item No	Description Of item of work	Nos	Measurements				Sub Qty	Total Qty	Unit
			Length	Breath	Depth				
1	3	4	6	7	8		9	10	11
measurement continued on:- 29/11/20									
7	Providing and laying bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with sensor paver Gr-I (80 mm to 100 mm) with 4 % VG-30 SOUNDARYA L/O 1ST MAIN								
		1	30.00	7.65 + 8.80 / 2		0.05	12.338		
		1	11.00	8.80 + 6.90 / 2		0.05	4.318		
		1	25.50	6.90 + 6.80 / 2		0.05	8.734		
		1	8.00	6.80 + 6.80 / 2		0.05	2.720		
		1	11.00	6.80 + 6.80 / 2		0.05	3.740		
		1	8.00	6.80 + 7.15 / 2		0.05	2.790		
		1	30.00	7.15 + 6.90 / 2		0.05	10.538		
		1	30.00	6.90 + 7.10 / 2		0.05	10.500		
		1	21.00	7.10 + 7.80 / 2		0.05	7.823		
		1	30.00	6.80 + 7.30 / 2		0.05	10.575		
		1	30.00	7.30 + 6.40 / 2		0.05	10.275		
		1	8.00	6.40 + 6.50 / 2		0.05	2.580		
		1	30.00	6.50 + 6.25 / 2		0.05	9.563		
		1	30.00	6.25 + 6.30 / 2		0.05	9.413		
		1	30.00	6.30 + 6.60 / 2		0.05	9.675		
		1	30.00	6.60 + 6.70 / 2		0.05	9.975		
		1	19.00	6.70 + 6.70 / 2		0.05	6.365		
		1	19.50	6.70 + 5.20 / 2		0.05	5.801		
				Total Qty			137.720		
				LIMITED TO TENDER QTY			136.240	136.240	Cum

Checked & the
29/11

Assistant Engineer-14 29/11/20

Assistant Executive Engineer
T Dasarahalli Sub- Division
BBMP
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BOQ Item No	Description Of item of work	Nos	Measurements				Sub Qty	Total Qty	Unit
			Length	Breath		Depth			
1	3	4	6	7		8	9	10	11
measurement continued on:- 02/12/20									
9	Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using 40-60 TPH capacity H.M.P. with mechanical paver grading I (50-65mm) with 5.5%VG-30 Bitumen								
	SOUNDARYA L/O 1ST MAIN								
		1	30.00	7.65 + 8.80 / 2		0.04	9.870		
		1	11.00	8.80 + 6.90 / 2		0.04	3.454		
		1	25.50	6.90 + 6.80 / 2		0.04	6.987		
		1	8.00	6.80 + 6.80 / 2		0.04	2.176		
		1	11.00	6.80 + 6.80 / 2		0.04	2.992		
		1	8.00	6.80 + 7.15 / 2		0.04	2.232		
		1	30.00	7.15 + 6.90 / 2		0.04	8.430		
		1	30.00	6.90 + 7.10 / 2		0.04	8.400		
		1	21.00	7.10 + 7.80 / 2		0.04	6.258		
		1	30.00	6.80 + 7.30 / 2		0.04	8.460		
		1	30.00	7.30 + 6.40 / 2		0.04	8.220		
		1	8.00	6.40 + 6.50 / 2		0.04	2.064		
		1	30.00	6.50 + 6.25 / 2		0.04	7.650		
		1	30.00	6.25 + 6.30 / 2		0.04	7.530		
		1	30.00	6.30 + 6.60 / 2		0.04	7.740		
		1	30.00	6.60 + 6.70 / 2		0.04	7.980		
		1	19.00	6.70 + 6.70 / 2		0.04	5.092		
		1	19.50	6.70 + 5.20 / 2		0.04	4.641		
				Total Qty			110.176		
				LIMITED TO TENDER QTY			109.000	109.000	Cum

Checked & Id
2/12

E.E. (D.D.)

Assistant Engineer-14
2/12/20

Assistant Executive Engineer
T Dasarahalli Sub- Division
BBMP

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ಟಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಪಿ.ಪಿ.ಎಂ.ಸಿ.
ಬೆಂಗಳೂರು-560073

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